

# SEQUENCE LISTING



<110> BEAUDOIN, Adrien R.  
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BACH, Fritz H.  
ROBSON, Simon

<120> ATP-DIPHOSPHOHYDROLASES, PROCESS OF PURIFICATION  
THEREOF AND PROCESS OF PRODUCING THEREOF BY RECOMBINANT  
TECHNOLOGY

<130> 920333.90019

<140> 09/781,796

<141> 2001-02-12

<150> 08/419,204

<151> 1995-04-10

<150> CA96/00223

<151> 1996-04-10

<150> 08/930,921

<151> 1998-02-01

<160> 8

<170> PatentIn Ver. 2.1

<210> 1

<211> 510

<212> PRT

<213> Homo sapiens

<400> 1

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| Met | Glu | Asp | Thr | Lys | Glu | Ser | Asn | Val | Lys | Thr | Phe | Cys | Ser | Lys | Asn |
|     |     |     |     |     |     |     |     |     | 10  |     |     |     |     | 15  |     |
| 1   |     |     |     | 5   |     |     |     |     |     |     |     |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Ala | Ile | Leu | Gly | Phe | Ser | Ser | Ile | Ile | Ala | Val | Ile | Ala | Leu |
|     |     |     |     |     |     |     |     |     | 25  |     |     |     |     | 30  |     |
|     |     |     | 20  |     |     |     |     |     |     |     |     |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Val | Gly | Leu | Thr | Gln | Asn | Lys | Ala | Leu | Pro | Glu | Asn | Val | Lys |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Ile | Val | Leu | Asp | Ala | Gly | Ser | Ser | His | Thr | Ser | Leu | Tyr | Ile |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Lys | Trp | Pro | Ala | Glu | Lys | Glu | Asn | Asp | Thr | Gly | Val | Val | His | Gln |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

|                                                                 |     |     |     |
|-----------------------------------------------------------------|-----|-----|-----|
| 65                                                              | 70  | 75  | 80  |
| Val Glu Glu Cys Arg Val Lys Gly Pro Gly Ile Ser Lys Phe Val Gln |     |     |     |
| 85                                                              | 90  | 95  |     |
| Lys Val Asn Glu Ile Gly Ile Tyr Leu Thr Asp Cys Met Glu Arg Ala |     |     |     |
| 100                                                             | 105 | 110 |     |
| Arg Glu Val Ile Pro Arg Ser Gln His Gln Glu Thr Pro Val Tyr Leu |     |     |     |
| 115                                                             | 120 | 125 |     |
| Gly Ala Thr Ala Gly Met Arg Leu Leu Arg Met Glu Ser Glu Glu Leu |     |     |     |
| 130                                                             | 135 | 140 |     |
| Ala Asp Arg Val Leu Asp Val Val Glu Arg Ser Leu Ser Asn Tyr Pro |     |     |     |
| 145                                                             | 150 | 155 | 160 |
| Phe Asp Phe Gln Gly Ala Arg Ile Ile Thr Gly Gln Glu Gly Ala     |     |     |     |
| 165                                                             | 170 | 175 |     |
| Tyr Gly Trp Ile Thr Ile Asn Tyr Leu Leu Gly Lys Phe Ser Gln Lys |     |     |     |
| 180                                                             | 185 | 190 |     |
| Thr Arg Trp Phe Ser Ile Val Pro Tyr Glu Thr Asn Asn Gln Glu Thr |     |     |     |
| 195                                                             | 200 | 205 |     |
| Phe Gly Ala Leu Asp Leu Gly Gly Ala Ser Thr Gln Val Thr Phe Val |     |     |     |
| 210                                                             | 215 | 220 |     |
| Pro Gln Asn Gln Thr Ile Glu Ser Pro Asp Asn Ala Leu Gln Phe Arg |     |     |     |
| 225                                                             | 230 | 235 | 240 |
| Leu Tyr Gly Lys Asp Tyr Asn Val Tyr Thr His Ser Phe Leu Cys Tyr |     |     |     |
| 245                                                             | 250 | 255 |     |
| Gly Lys Asp Gln Ala Leu Trp Gln Lys Leu Ala Lys Asp Ile Gln Val |     |     |     |
| 260                                                             | 265 | 270 |     |
| Ala Ser Asn Glu Ile Leu Arg Asp Pro Cys Phe His Pro Gly Tyr Lys |     |     |     |
| 275                                                             | 280 | 285 |     |
| Lys Val Val Asn Val Ser Asp Leu Tyr Lys Thr Pro Cys Thr Lys Arg |     |     |     |
| 290                                                             | 295 | 300 |     |
| Phe Glu Met Thr Leu Pro Phe Gln Gln Phe Glu Ile Gln Gly Ile Gly |     |     |     |
| 305                                                             | 310 | 315 | 320 |
| Asn Tyr Gln Gln Cys His Gln Ser Ile Leu Glu Leu Phe Asn Thr Ser |     |     |     |

325

330

335

Tyr Cys Pro Tyr Ser Gln Cys Ala Phe Asn Gly Ile Phe Leu Pro Pro  
 340 345 350

Leu Gln Gly Asp Phe Gly Ala Phe Ser Ala Phe Tyr Phe Val Met Lys  
 355 360 365

Phe Leu Asn Leu Thr Ser Glu Lys Val Ser Gln Glu Lys Val Thr Glu  
 370 375 380

Met Met Lys Lys Phe Cys Ala Gln Pro Trp Glu Glu Ile Lys Thr Ser  
 385 390 395 400

Tyr Ala Gly Val Lys Glu Lys Tyr Leu Ser Glu Tyr Cys Phe Ser Gly  
 405 410 415

Thr Tyr Ile Leu Ser Leu Leu Leu Gln Gly Tyr His Phe Thr Ala Asp  
 420 425 430

Ser Trp Glu His Ile His Phe Ile Gly Lys Ile Gln Gly Ser Asp Ala  
 435 440 445

Gly Trp Thr Leu Gly Tyr Met Leu Asn Leu Thr Asn Met Ile Pro Ala  
 450 455 460

Glu Gln Pro Leu Ser Thr Pro Leu Ser His Ser Thr Tyr Val Phe Leu  
 465 470 475 480

Met Val Leu Phe Ser Leu Val Leu Phe Thr Val Ala Ile Ile Gly Leu  
 485 490 495

Leu Ile Phe His Lys Pro Ser Tyr Phe Trp Lys Asp Met Val  
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&lt;210&gt; 2

&lt;211&gt; 1818

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

Ala Cys Cys Ala Cys Ala Cys Cys Ala Ala Gly Cys Ala Gly Cys Gly  
 1 5 10 15

Gly Cys Thr Gly Gly Gly Gly Gly Gly Gly Gly Gly Ala Ala Ala Gly  
 20 25 30

Ala Cys Gly Ala Gly Gly Ala Ala Ala Gly Ala Gly Gly Ala Gly Gly  
35 40 45

Ala Ala Ala Ala Cys Ala Ala Ala Ala Gly Cys Thr Gly Cys Thr Ala  
50 55 60

Cys Thr Thr Ala Thr Gly Gly Ala Ala Gly Ala Thr Ala Cys Ala Ala  
65 70 75 80

Ala Gly Gly Ala Gly Thr Cys Thr Ala Ala Cys Gly Thr Gly Ala Ala  
85 90 95

Gly Ala Cys Ala Thr Thr Thr Thr Gly Cys Thr Cys Cys Ala Ala Gly  
100 105 110

Ala Ala Thr Ala Thr Cys Cys Thr Ala Gly Cys Cys Ala Thr Cys Cys  
115 120 125

Thr Thr Gly Gly Cys Thr Thr Cys Thr Cys Cys Thr Cys Thr Ala Thr  
130 135 140

Cys Ala Thr Ala Gly Cys Thr Gly Thr Gly Ala Thr Ala Gly Cys Thr  
145 150 155 160

Thr Thr Gly Cys Thr Thr Gly Cys Thr Gly Thr Gly Gly Gly Thr  
165 170 175

Thr Gly Ala Cys Cys Cys Ala Gly Ala Ala Cys Ala Ala Ala Gly Cys  
180 185 190

Ala Thr Thr Gly Cys Cys Ala Gly Ala Ala Ala Cys Gly Thr Thr  
195 200 205

Ala Ala Gly Thr Ala Thr Gly Gly Gly Ala Thr Thr Gly Thr Gly Cys  
210 215 220

Thr Gly Gly Ala Thr Gly Cys Gly Gly Gly Thr Thr Cys Thr Thr Cys  
225 230 235 240

Thr Cys Ala Cys Ala Cys Ala Ala Gly Thr Thr Thr Ala Thr Ala Cys  
245 250 255

Ala Thr Cys Thr Ala Thr Ala Ala Gly Thr Gly Gly Cys Cys Ala Gly  
260 265 270

Cys Ala Gly Ala Ala Ala Ala Gly Gly Ala Gly Ala Thr Gly Ala  
275 280 285

Cys Ala Cys Ala Gly Gly Cys Gly Thr Gly Gly Thr Gly Cys Ala Thr  
290 295 300

Cys Ala Ala Gly Thr Ala Gly Ala Ala Gly Ala Ala Thr Gly Cys Ala  
305 310 315 320

Gly Gly Gly Thr Thr Ala Ala Ala Gly Gly Thr Cys Cys Thr Gly Gly  
325 330 335

Ala Ala Thr Cys Thr Cys Ala Ala Ala Ala Thr Thr Thr Gly Thr Thr  
340 345 350

Cys Ala Gly Ala Ala Ala Gly Thr Ala Ala Ala Thr Gly Ala Ala Ala  
355 360 365

Thr Ala Gly Gly Cys Ala Thr Thr Thr Ala Cys Cys Thr Gly Ala Cys  
370 375 380

Thr Gly Ala Thr Thr Gly Cys Ala Thr Gly Gly Ala Ala Ala Gly Ala  
385 390 395 400

Gly Cys Thr Ala Gly Gly Gly Ala Ala Gly Thr Gly Ala Thr Thr Cys  
405 410 415

Cys Ala Ala Gly Gly Thr Cys Cys Cys Ala Gly Cys Ala Cys Cys Ala  
420 425 430

Ala Gly Ala Gly Ala Cys Ala Cys Cys Cys Gly Thr Thr Thr Ala Cys  
435 440 445

Cys Thr Gly Gly Gly Ala Gly Cys Cys Ala Cys Gly Gly Cys Ala Gly  
450 455 460

Gly Cys Ala Thr Gly Cys Gly Gly Thr Thr Gly Cys Thr Cys Ala Gly  
465 470 475 480

Gly Ala Thr Gly Gly Ala Ala Ala Gly Thr Gly Ala Ala Gly Ala Gly  
485 490 495

Thr Thr Gly Gly Cys Ala Gly Ala Cys Ala Gly Gly Gly Thr Thr Cys  
500 505 510

Thr Gly Gly Ala Thr Gly Thr Gly Gly Thr Gly Gly Ala Gly Ala Gly  
515 520 525

Gly Ala Gly Cys Cys Thr Cys Ala Gly Cys Ala Ala Cys Thr Ala Cys  
530 535 540

Cys Cys Cys Thr Thr Thr Gly Ala Cys Thr Thr Cys Cys Ala Gly Gly  
545 550 555 560

Gly Thr Gly Cys Cys Ala Gly Gly Ala Thr Cys Ala Thr Thr Ala Cys  
565 570 575

Thr Gly Gly Cys Cys Ala Ala Gly Ala Gly Gly Ala Ala Gly Gly Thr  
580 585 590

Gly Cys Cys Thr Ala Thr Gly Gly Cys Thr Gly Gly Ala Thr Thr Ala  
595 600 605

Cys Thr Ala Thr Cys Ala Ala Cys Thr Ala Thr Cys Thr Gly Cys Thr  
610 615 620

Gly Gly Gly Cys Ala Ala Ala Thr Thr Cys Ala Gly Thr Cys Ala Gly  
625 630 635 640

Ala Ala Ala Ala Cys Ala Ala Gly Gly Thr Gly Gly Thr Thr Cys Ala  
645 650 655

Gly Cys Ala Thr Ala Gly Thr Cys Cys Cys Ala Thr Ala Thr Gly Ala  
660 665 670

Ala Ala Cys Cys Ala Ala Thr Ala Ala Thr Cys Ala Gly Gly Ala Ala  
675 680 685

Ala Cys Cys Thr Thr Thr Gly Gly Ala Gly Cys Thr Thr Thr Gly Gly  
690 695 700

Ala Cys Cys Thr Thr Gly Gly Gly Gly Ala Gly Cys Cys Thr Cys  
705 710 715 720

Thr Ala Cys Ala Cys Ala Ala Gly Thr Cys Ala Cys Thr Thr Thr  
725 730 735

Gly Thr Ala Cys Cys Cys Cys Ala Ala Ala Ala Cys Cys Ala Gly Ala  
740 745 750

Cys Thr Ala Thr Cys Gly Ala Gly Thr Cys Cys Cys Cys Ala Gly Ala  
755 760 765

Thr Ala Ala Thr Gly Cys Thr Cys Thr Gly Cys Ala Ala Thr Thr Thr  
770 775 780

Cys Gly Cys Cys Thr Cys Thr Ala Thr Gly Gly Cys Ala Ala Gly Gly  
785 790 795 800

Ala Cys Thr Ala Cys Ala Ala Thr Gly Thr Cys Thr Ala Cys Ala Cys  
805 810 815

Ala Cys Ala Thr Ala Gly Cys Thr Thr Cys Thr Thr Gly Thr Gly Cys  
820 825 830

Thr Ala Thr Gly Gly Gly Ala Ala Gly Gly Ala Thr Cys Ala Gly Gly  
835 840 845

Cys Ala Cys Thr Cys Thr Gly Gly Cys Ala Gly Ala Ala Ala Cys Thr  
850 855 860

Gly Gly Cys Cys Ala Ala Gly Gly Ala Cys Ala Thr Thr Cys Ala Gly  
865 870 875 880

Gly Thr Thr Gly Cys Ala Ala Gly Thr Ala Ala Thr Gly Ala Ala Ala  
885 890 895

Thr Thr Cys Thr Cys Ala Gly Gly Gly Ala Cys Cys Cys Ala Thr Gly  
900 905 910

Cys Thr Thr Thr Cys Ala Thr Cys Cys Thr Gly Gly Ala Thr Ala Thr  
915 920 925

Ala Ala Gly Ala Ala Gly Gly Thr Ala Gly Thr Gly Ala Ala Cys Gly  
930 935 940

Thr Ala Ala Gly Thr Gly Ala Cys Cys Thr Thr Thr Ala Cys Ala Ala  
945 950 955 960

Gly Ala Cys Cys Cys Cys Cys Thr Gly Cys Ala Cys Cys Ala Ala Gly  
965 970 975

Ala Gly Ala Thr Thr Thr Gly Ala Gly Ala Thr Gly Ala Cys Thr Cys  
980 985 990

Thr Thr Cys Cys Ala Thr Thr Cys Cys Ala Gly Cys Ala Gly Thr Thr  
995 1000 1005

Thr Gly Ala Ala Ala Thr Cys Cys Ala Gly Gly Gly Thr Ala Thr Thr  
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Gly Gly Ala Ala Ala Cys Thr Ala Thr Cys Ala Ala Cys Ala Ala Thr  
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Gly Cys Cys Ala Thr Cys Ala Ala Ala Gly Cys Ala Thr Cys Cys Thr  
1045 1050 1055

Gly Gly Ala Gly Cys Thr Cys Thr Thr Cys Ala Ala Cys Ala Cys Cys  
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Ala Gly Thr Thr Ala Cys Thr Gly Cys Cys Cys Thr Thr Ala Cys Thr  
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Cys Cys Cys Ala Gly Thr Gly Thr Gly Cys Cys Thr Thr Cys Ala Ala  
1090 1095 1100

Thr Gly Gly Gly Ala Thr Thr Thr Thr Cys Thr Thr Gly Cys Cys Ala  
1105 1110 1115 1120

Cys Cys Ala Cys Thr Cys Cys Ala Gly Gly Gly Gly Gly Ala Thr Thr  
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Thr Thr Gly Gly Gly Gly Cys Ala Thr Thr Thr Thr Cys Ala Gly Cys  
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Ala Ala Gly Thr Thr Thr Thr Thr Ala Ala Ala Cys Thr Thr Gly Ala  
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Cys Ala Thr Cys Ala Gly Ala Gly Ala Ala Ala Gly Thr Cys Thr Cys  
1185 1190 1195 1200

Thr Cys Ala Gly Gly Ala Ala Ala Ala Gly Gly Thr Gly Ala Cys Thr  
1205 1210 1215

Gly Ala Gly Ala Thr Gly Ala Thr Gly Ala Ala Ala Ala Gly Thr  
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Thr Cys Thr Gly Thr Gly Cys Thr Cys Ala Gly Cys Cys Thr Thr Gly  
1235 1240 1245

Gly Gly Ala Gly Gly Ala Gly Ala Thr Ala Ala Ala Ala Cys Ala  
1250 1255 1260

Thr Cys Thr Thr Ala Cys Gly Cys Thr Gly Gly Ala Gly Thr Ala Ala  
1265 1270 1275 1280

Ala Gly Gly Ala Gly Ala Ala Gly Thr Ala Cys Cys Thr Gly Ala Gly  
1285 1290 1295

Thr Gly Ala Ala Thr Ala Cys Thr Gly Cys Thr Thr Thr Cys Thr  
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Gly Gly Thr Ala Cys Cys Thr Ala Cys Ala Thr Thr Cys Thr Cys Thr  
1315 1320 1325

Cys Cys Cys Thr Cys Cys Thr Thr Cys Thr Gly Cys Ala Ala Gly Gly  
1330 1335 1340

Cys Thr Ala Thr Cys Ala Thr Thr Thr Cys Ala Cys Ala Gly Cys Thr  
1345 1350 1355 1360

Gly Ala Thr Thr Cys Cys Thr Gly Gly Gly Ala Gly Cys Ala Cys Ala  
1365 1370 1375

Thr Cys Cys Ala Thr Thr Thr Cys Ala Thr Thr Gly Gly Cys Ala Ala  
1380 1385 1390

Gly Ala Thr Cys Cys Ala Gly Gly Gly Cys Ala Gly Cys Gly Ala Cys  
1395 1400 1405

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1410 1415 1420

Gly Cys Thr Ala Cys Ala Thr Gly Cys Thr Gly Ala Ala Cys Cys Thr  
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Gly Ala Cys Cys Ala Ala Cys Ala Thr Gly Ala Thr Cys Cys Cys Ala  
1445 1450 1455

Gly Cys Thr Gly Ala Gly Cys Ala Ala Cys Cys Ala Thr Thr Gly Thr  
1460 1465 1470

Cys Cys Ala Cys Ala Cys Cys Thr Cys Thr Cys Thr Cys Cys Ala  
1475 1480 1485

Cys Thr Cys Cys Ala Cys Cys Thr Ala Thr Gly Thr Cys Thr Thr Cys  
1490 1495 1500

Cys Thr Cys Ala Thr Gly Gly Thr Thr Cys Thr Ala Thr Thr Cys Thr  
1505 1510 1515 1520

Cys Cys Cys Thr Gly Gly Thr Cys Cys Thr Thr Thr Thr Cys Ala Cys  
1525 1530 1535

Ala Gly Thr Gly Gly Cys Cys Ala Thr Cys Ala Thr Ala Gly Gly Cys  
1540 1545 1550

Thr Thr Gly Cys Thr Thr Ala Thr Cys Thr Thr Thr Cys Ala Cys Ala  
1555 1560 1565

Ala Gly Cys Cys Thr Thr Cys Ala Thr Ala Thr Thr Cys Thr Gly  
1570 1575 1580

Gly Ala Ala Ala Gly Ala Thr Ala Thr Gly Gly Thr Ala Thr Ala Gly  
1585 1590 1595 1600

Cys Ala Ala Ala Ala Gly Cys Ala Gly Cys Thr Gly Ala Ala Ala Thr  
1605 1610 1615

Ala Thr Gly Cys Thr Gly Gly Cys Thr Gly Gly Ala Gly Thr Gly Ala  
1620 1625 1630

Gly Gly Ala Ala Ala Ala Ala Thr Cys Gly Thr Cys Cys Ala Gly  
1635 1640 1645

Gly Gly Ala Gly Cys Ala Thr Thr Thr Thr Cys Cys Thr Cys Cys Ala  
1650 1655 1660

Thr Cys Gly Cys Ala Gly Thr Gly Thr Thr Cys Ala Ala Gly Gly Cys  
1665 1670 1675 1680

Cys Ala Thr Cys Cys Thr Thr Cys Cys Cys Thr Gly Thr Cys Thr Gly  
1685 1690 1695

Cys Cys Ala Gly Gly Gly Cys Cys Ala Gly Thr Cys Thr Thr Gly Ala  
1700 1705 1710

Cys Gly Ala Gly Thr Gly Thr Gly Ala Ala Gly Cys Thr Thr Cys Cys  
1715 1720 1725

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1730 1735 1740

Cys Cys Thr Thr Thr Cys Thr Thr Thr Thr Gly Gly Ala Gly Gly Thr  
1745 1750 1755 1760

Ala Thr Thr Cys Ala Ala Thr Ala Thr Cys Cys Thr Thr Thr Gly Cys  
1765 1770 1775

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1795 1800 1805

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1810 1815

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<212> PRT  
<213> Bovine

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1 5

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<400> 7  
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10

15

Ser Thr Gln

<210> 8

<211> 16

<212> PRT

<213> Human and bovine

<400> 8

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1

5

10

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